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ASSISTANT COMMISSIONER FOR PATENTS  
APPLICATION  
Washington, D.C. 20231

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Transmitted herewith for filing is the Patent Application of:

Inventors: Maged M. Michael, Ashwini Nanda and T. Basil Smith III

ASSIGNEE NAME: International Business Machines Corporation

ASSIGNEE RESIDENCE: Armonk, New York

For: STATE-BASED ALLOCATION AND REPLACEMENT FOR IMPROVED HIT RATIO IN DIRECTORY CACHES

Enclosed are:

- ☒ Seven (7) Sheets of Drawings.
- ☒ An assignment of the invention to International Business Machines Corporation, Armonk, New York 10504 with attached assignment recordation form cover sheet.
- ☐ Certified copy of        application
- ☒ An signed Declaration and Power of Attorney is attached to the application.
- ☐ Associate Power of Attorney.
- ☒ Information Disclosure Statement with form PTO-1449 and references attached.

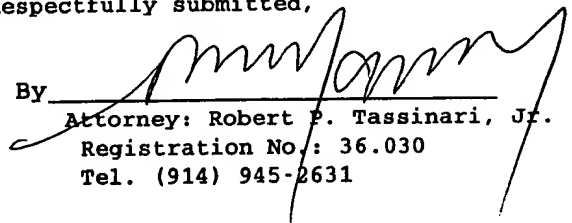
The filing fee has been calculated as shown below:

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| INDEP CLAIMS  | 6 - 3 =   | 3         | X \$ 80 =                    | \$ 240.00  |
| <input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENTED |           |           | + \$270 =                    | \$ 0.00    |
|   |           |           | TOTAL                        | \$ 1058.00 |

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- ☒ Any additional filing fees required under 37 CFR 1.16.
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Respectfully submitted,

By   
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In re application of: Maged M. Michael et al  
Serial No.:  
Filed: Herewith

Group No.  
Examiner:

For: **STATE-BASED ALLOCATION AND REPLACEMENT  
FOR IMPROVED HIT RATIO IN DIRECTORY CACHES**

Assistant Commissioner for Patents and Trademarks  
Washington, D.C. 20231

### EXPRESS MAIL CERTIFICATE

Express Mail Label Number EL 715831383 US  
Date of Deposit March 7, 2001

I hereby certify that the attached paper or fee

Return Post Card  
Transmittal Sheet  
Application with 7 attached drawings  
Declaration and Power of Attorney  
Recordation Sheet with attached Assignment  
Information Disclosure Statement with form 1449 and references

is being deposited with the United States Postal Service - Express Mail Post Office to  
Addressee - service under 37 CFR 1.10 on the date indicated above and is addressed  
to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Emily S. Forbes

(Name)

Emily S. Forbes

Signature

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Docket No. YOR919990425